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APPLICATION NO.	TION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/652,993	-	08/31/2000	Vishnu K. Agarwal	98-0616.03 4012		
27076	7590	06/05/2002				
DORSEY &		NEY LLP	. EXAMINER			
SUITE 3400 1420 FIFTH	AVENUI		DIAZ, JOSE R			
SEATTLE,	WA 9810) I		ART UNIT PAPER NUMBER		
				2815		
				DATE MAILED: 06/05/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

<u> </u>								
		Application No.	Applicant(s)					
. ' Office Action Summary		09/652,993	AGARWAL, VISHNU K.					
		Examiner	Art Unit					
		José R. Díaz	2815	ME				
Period fo	The MAILING DATE of this communication apports r Reply	ears on the cover sheet with the c	orrespondence ad	dress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status								
1)🛛	Responsive to communication(s) filed on 26 A	pril 2002 .						
2a) <u></u>	This action is FINAL . 2b) This	s action is non-final.						
3)□	<u> </u>							
Dispositi	on of Claims	,						
4)⊠	Claim(s) 4,76,77 and 81-85 is/are pending in the	ne application.						
	4a) Of the above claim(s) is/are withdraw	n from consideration.						
·	Claim(s) is/are allowed.							
·	6)⊠ Claim(s) <u>4,76,77 and 81-85</u> is/are rejected.							
· —	Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement. Application Papers								
9) ☐ The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) 🔲 🗆	The proposed drawing correction filed on	is: a) ☐ approved b) ☐ disappro	ved by the Examine	er.				
If approved, corrected drawings are required in reply to this Office action.								
12)☐ The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)[☐ All b)☐ Some * c)☐ None of:							
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
14)∐ A	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☑ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment	_							
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>14</u>	5) Notice of Informal F	(PTO-413) Paper No(Patent Application (PTC					
S. Patent and Tr	adamark Office							

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on April 26, 2002 has been entered.

Claim Rejections - 35 USC § 102

➤ The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

➤ Claims 4, 76-77 and 81-85 are rejected under 35 U.S.C. 102(e) as being anticipated by Agarwal et al. (US Patent No. 6,201,276 B1).

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Regarding claims 4, 76 and 81-83, Agarwal et al. teach a method of manufacturing a semiconductor device (see cols. 1-12) comprising the steps of: providing a conductive material (14) and directly exposing the conductive material to a selection consisting of diborane, phosphine, methylsilane, hexamethyldisilane, hexamethyldisilazane, HCI, boron trichloride and combination thereof (see Fig. 2a-2b, col. 4, lines 49-62 and col. 5, lines 61-66). Furthermore, Agarwal et al. teach that the lower electrode (14) can be formed of various conductive materials such as polysilicon, tungsten nitride and combination thereof (see col. 4, lines 20-24). In addition, Agarwal et al. teach that such passivation step can be performed in any well-known capacitor structure such as the capacitors having a conductive plug (see col. 1, lines 47-66, col. 3, lines 40-67 and col. 4, lines 1-7).

Regarding claims 77 and 85, Agarwal et al. teach that such exposing step causes a reduction in an ability of the treated layer to associate with oxygen (see col. 4, lines 63-67).

Regarding claim 84, Agarwal et al. teach that the second electrode is formed of any well-known conductive material such as Cu (see col. 5, lines 37-39).

Response to Arguments

➤ Applicant's arguments with respect to claims 4, 76-77 and 81-85 have been considered but are most in view of the new ground(s) of rejection.

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Correspondence

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to José R. Díaz whose telephone number is (703) 308-

6078. The examiner can normally be reached on 9:00 - 5:00 Monday, Tuesday,

Thursday and Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Eddie C. Lee can be reached on (703) 308-1690. The fax phone numbers

for the organization where this application or proceeding is assigned are (703) 308-7722

for regular communications and (703) 746-3891 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0956.

JRD

June 2, 2002

EDDIE LEE

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